

# ACTA MECHANICA SOLIDA SINICA LIST OF CONTENTS, 1988

Fundamental properties of elasto-plastic matrix and existence and uniqueness of elasto-plastic stress and displacement.....	YAN-MING CEN	1
Optimal control of structures governed by variational and hemivariational inequalities and applications.....	P. D. PANAGIOTOPOULOS and C. D. BISBOS	15
On the convergence of the solution by initial stress method for non-associated plastic problems.....	SU-JIAN HUANG	33
Transient response of single-diskrotor on anisotropic supports passing through critical speed.....	ZHI-CHU FANG and ZHEN-HUANG LUO	39
A study of fatigue crack growth under random stresses in the aspect of statistics .....	JUN-MING HU, WEI-PING YAO and KANG-XIAN LI	51
Natural mode analysis of blades-disk coupled systems-modal synthesis of symmetric structure with $C_N$ group .....	WEN-LIANG WANG, JIN ZHANG and XIANG-JUN CHEN	61
Study of half-space elastic contact problems by caustics .....	KUN-LIANG CHU and JIAN-CHU YAO	73
The scattering of SH waves by numerous inhomogeneities in an anisotropic body .....	WEI-FANG ZHONG and GUO-HUA NIE	81
On engineering approach to some fluid-structure interaction problems of vibration—a review.....	QING-HUA DU, YOU-SHENG WU and ZHEN-XING FENG	97
Two plastic buckling problems of cylindrical shell under impulsive loading .....	CHONG QING RU and REN WANG	111
Thermodynamic theories of stability postulate in plasticity.....	SU-JIAN HUANG	117
Coupled rocking and sliding vibration response of a structure to harmonic horizontal ground motion.....	XIN-CHUAN ZENG and A. S. CAKMAK	125
Propagation crack problems in interfaces between dissimilar orthotropic media .....	JIN CHENG	139
The criterion of critical void growth ratio and its applications .....	CHANG-QING ZHENG, LI ZHOU and JIAN-MING LIU	149
Boundary element analysis for dynamic response of vibration foundation .....	XI-RENG ZHOU and N. R. WIBERG	159
On the analyses of vibration and stability for orthotropic circular cylindrical shells conveying fluid.....	YU-YING HUANG and LI ZHAO	169
Influences of random disturbances on simultaneous resonances of nonlinear coupling		

systems.....	DE-CHENG DAI and W. G. PRICE	181
An improved time domain polyreference method for modal identification		
.....	LING-MI ZHANG, YING-XIAN YAO and MING-FU LU	197
A convergent method of solution for clamped rectangular plate		
.....	YONG-GANG HUANG	215
Minimum principles in the linear dynamic theory of viscoelasticity		
.....	JIA-REN LI and SHEN-XUE ZHANG	223
The finite element method of viscoelastic large deformation plane problem with Kirchhoff stress tensors-Green strain tensors constitutive relation		
.....	YA-PENG SHEN, YI-HENG CHEN and YA-FEI PEN	235
The scattered energy around a circular hole by SH wave in anisotropic media		
.....	DIAN-KUI LIU and YING-CHUN YUAN	249
Stochastic finite element method based on local averages of random fields		
.....	WEI-QIU ZHU and YONG-JIAN REN	261
Scattering of elastic waves by a periodic array of cracks in 3-D space		
.....	ZAI-LIANG LI and QI-MIAO WANG	273
Generalized variational principles for linear elastic materials with voids		
.....	LI-HUA JIN	291
Experimental investigation of circular cantilever beams subjected to impulsive loading		
... TIE-GUANG ZHANG, LONG-MAO ZHAO, CHENG LIANG and TONG-XI YU		301
An experimental analysis of displacement field of mixed mode crack		
.....	WEI XIAO and LIN-AN LEE	315
Some further results of the boundary element method for plate bending		
.....	XI-LIN LU and QING-HUA DU	325
Finite element analysis of mode III steady crack growth in anisotropic hardening materials		
.....	MU SUN and SHOU-WEN YU	337
Boundary element method for moderately thick shallow spherical shell bending		
.....	XIAO-YAN LEI and MAO-KUANG HUANG	345
Semi-infinite mode III crack propagation at constant velocity in anisotropic medium		
.....	DIAN-KUI LUI and ZAI-LIANG LI	355
Nonlinear stability of large K-value shallow spherical shells with a symmetrically distributed line load.....	SHU-XIAN GU	369
The axisymmetrical elastic field of an ellipsoidal inclusion with a slipping interface		
.....	ZI-KUN WANG and JIN-XING HUANG	383
The angle-interlaminar shear strength of carbon fiber-reinforced plastic laminates		
.....	SHUN-LIN LI and JUN XIAO	395

A method of the small plastic deformation analyzing the circular cantilever beam impact problem.....	TIE-GUANG ZHANG and TONG-XI YU	401
Quasi-Euler-Poinsot motion of a rigid body.....	YAN-ZHU LIU	407
Asymptotic integration of elasto-plastic constitutive relation for isotropic hardening material and its computational precision		
.....	XU-CHENG WANG and LIANG-MING C.	419
The stagnation laws of inclined cracks at original turning point under fatigue tensile loading.....	W. Z. XING, Q. Q. HUANG and M. Z. HU	431
Theory of slip-line field for anisotropic hardening materials		
.....	AN CHEN, ZEN-XIN MI and XI-MENG YAO	439
Flaw detection of an elastic pole—an application of optimal control theory		
.....	GUANG-YUAN HUANG and YUAN-HUA TANG	447
A study of the dynamic holophotoelasticity light rotation method		
.....	YU-WEN QIN, CHANG-FAI DU and ZHI-SHENG YE	461